



# HARRIS COUNTY ENGINEERING DEPARTMENT

10555 NORTHWEST FREEWAY, SUITE 120, HOUSTON, TX 77092 – OFFICE 713-274-3900 Receipt Date: 02/13/2018 11:45 AM

## OFFICIAL RECEIPT

COUNTY AUDITOR'S FORM 197  
harris county, tx (rev. 08/14)

Receipt Date: 2/13/2018 11:45:05 AM

Receipt No: PID20180213-00051058

Issued To: Rosa Rodriguez

Order No: 73429

Fee Type	Permit #	Description	Assessment
DBA: JOSE LIRA			
Project Number: 1802130029 : 850 Veller DR , HOUSTON, TX 77032			
Permit	1802130029-OSDR-001	Drip Irrigation Type Of On-Site Sewerage Facility	\$100.00
Inspection		Sewage Facility Inspection	\$150.00
Surcharge		State Surcharge	\$10.00
		Project Total:	\$260.00

Organization: 208

Cash: \$260.00

Check Nos:

Check/MO:

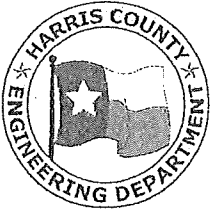
Cashier ID: 10919

Credit Card:

Date/Time: 2/13/2018 11.45 AM

Receipt Total: \$260.00

COUNTY AUDITOR COPY



# Harris County Engineering Department

10555 NORTHWEST FREEWAY, SUITE 120, HOUSTON, TX 77092 - OFFICE 713-274-3900

## INSPECTION RECORD - POST THIS CARD ON SITE

### Property Information

### Project Detail

Residential Property

Project Name:

Project No: 1802130029

Property Owner: AMILCAR CRUZ

Suite:

Address: 850 Veller DR

Zip: 77032

City: HOUSTON

State: TX

Email: SUPPORT@HDEPLANS.COM

Applicant/DBA: JOSE LIRA

Contact No: (281) 781-3643

### REQUIRED INSPECTION(S)

IT IS YOUR RESPONSIBILITY TO CALL FOR REQUIRED INSPECTIONS

(\*) All Inspections below designated with an Asterisk must be passed before permanent power will be released

Permit Number	Inspection Description	Inspector Name & Signature	Pass/Fail	Date
1802130029-OSDR-001	*Sewage Facility Inspection			

### CERTIFICATE OF COMPLIANCE

Date	Inspection Category	Inspector	Signature	Pass/Fail

Main Line HCPID 713-274-3900

Schedule Inspections 713-274-3800

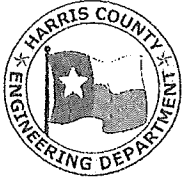
Fire Code Inspections 281-436-8000

Fax 713-437-5764

This Card is your record of inspections and must be signed off by all required departments to receive your Fire Marshal's final inspection and Certificate of Compliance. This card must be kept onsite and available to the inspector at all times and during inspections. Protect this card from weather. The approved plans must be available during inspections. Inspections must be completed in the listed order and the Certificate of Compliance will not be issued until all other required inspections are completed and approved.

[www.hcpid.org/permits](http://www.hcpid.org/permits)

2/13/2018 11:45:21 AM



# Harris County Engineering Department

10555 NORTHWEST FREEWAY, SUITE 120, HOUSTON, TX 77092 - OFFICE 713-274-3900

## PERMIT FOR DRIP IRRIGATION TYPE OF ON-SITE SEWERAGE FACILITY

Date Issued: 02/13/2018	Expiration Date: 2/13/2019
Issued To: AMILCAR CRUZ	Project Name:
Owner: AMILCAR CRUZ	Permit No: 1802130029-OSDR-001
Applicant: JOSE LIRA	Permit Class Code: CLASS II
Contact: Jose Lira	
Contact Email: Support@hdeplans.com	
Contact Phone: (832) 938-6000	

<b>Property Information</b>						
Address: 850 Veller Drive	Bldg:	Suite:	Trailer:			
City: HOUSTON	State: TX	Zip: 77032				
Subdivision: Gatewood	Section: 2	Lot: 286	Block: 10	Reserve: N/A		
Abstract No.:	Survey Name:					

### REQUIRED INSPECTION(S)

IT IS YOUR RESPONSIBILITY TO CALL FOR ALL REQUIRED INSPECTIONS

(\*) All Inspections designated with an asterisk must be passed before permanent power will be released.

- 1 \* Sewage Facility Inspection

### PRE-INSPECTION DOCUMENT(S)

ALL PRE-INSPECTION DOCUMENTS MUST BE RECEIVED AND APPROVED BEFORE INSPECTIONS CAN BE REQUESTED

### SPECIAL REQUIREMENT(S)

- 1 Schedule Inspection(s) By Logging Into Your Online Account (e-Permits), Selecting Inspections - Inspection Request, And Select The Inspection You Would Like To Request;  
You may also fill out the online request form at <http://www.eng.hctx.net/permits/Development/Development/Inspection-Request>; Or By Calling 713-274-3800. All Site, Storm Water Quality, On-site Sewerage Facility and Right of Way Inspections must be PASSED and Permanent Power Released before requesting your Fire Marshal Inspection.
- 2 All Construction Shall Be In Accordance With The Approved And Permitted Documents, Any Special Details Will Be Noted On Approved Plans
- 3 On-Site Sewerage (OSS) License Must Be Obtained Prior To Start Of Construction
- 4 Ultra Low Flow Fixtures Required As Per Design
- 5 Septic Tank Anchoring Required To Prevent Tank Flotation
- 6 Well Log Must Show That Pressure Cemented Well Is Required
- 7 Auto Dialer Required

  
 Permit Manager

Main Line HCPID 713-274-3900

Schedule Inspections 713-274-3800

Fire Code Inspections 281-436-8000

On the day herein stated the undersigned authority did issue to the hereinafter mentioned Permittee this Permit to install and operate an on-site private sewage facility on the hereinafter mentioned premises in accordance with the application, drawings and specifications submitted in support hereof with the Revised Rules of Harris County, Texas, for on-site Sewerage Facilities, and with the Laws of the State of Texas. This Permit shall not be transferable without the prior written consent of the undersigned authority. Authority for issuance of this Permit is derived from Chapter 366 of the Texas Health and Safety Code. Harris County has not examined title to the site designated in this Permit nor has Harris County determined whether the construction described in this Permit is in violation of or contrary to any deed restrictions or covenants applicable to the said site. The determination that the facility to be constructed is not in violation of any deed restrictions or applicable covenants shall be the responsibility of the Permittee. This said Permit to operate an on-site sewage facility shall become null and void if the construction of the said facility is not started, completed and inspected within one (1) year from the date shown hereon. Approval of the on-site sewage facility for operation shall only indicate that the facility meets the minimum requirements for issuance of this Permit. County and State Standards do not guarantee that the on-site sewage system will always perform satisfactorily. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner. NO REFUND OF PERMIT FEES IS ALLOWED FOR EXPIRED, VOID OR CANCELED PERMITS, OR FOR ANY INSPECTIONS THAT MAY HAVE BEEN CONDUCTED.



**OFFICE OF STAN STANART**  
COUNTY CLERK, HARRIS COUNTY, TEXAS

**RECEIPT FOR REAL PROPERTY FILING  
AFFIDAVITS FOR HARRIS COUNTY PERMITS OFFICE**

PROJECT NO. 00214099

LOG NO. 137

ON-SITE SEWAGE SYSTEM       DETENTION POND       STORM WATER QUALITY

This is to acknowledge receipt of cash/check/or money order in the amount of \$ 110.00 for real property filing fees. The document(s) will be recorded within the next 5 - 7 business days and after recording, it will be mailed to the return address as shown.

2-18-2018 DATE ACCEPTED      Amber Cruz CUSTOMER NAME

Lashay Hester, Inc HCPO CLERK      281-781-2043 CUSTOMER PHONE NUMBER

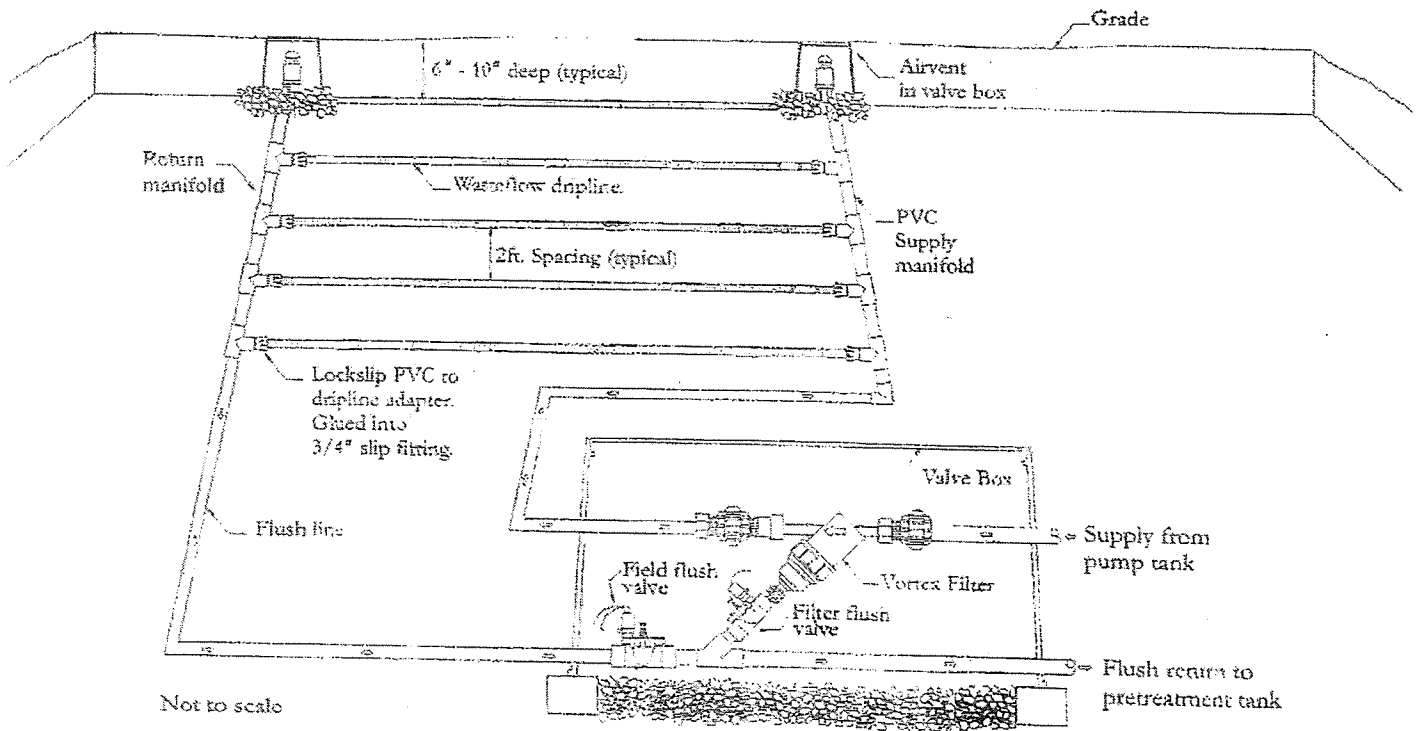
..... TO BE COMPLETED BY REAL PROPERTY DEPARTMENT .....

RECORDED \_\_\_\_\_ FILE NO. \_\_\_\_\_ DATE FILED \_\_\_\_\_

REJECTED \_\_\_\_\_ RP DEPUTY \_\_\_\_\_

CCO Form No. C-02-27 (Rev. 3/1/2017)  
County Auditor's Form 153P  
Harris County, TX (3/1/2017)

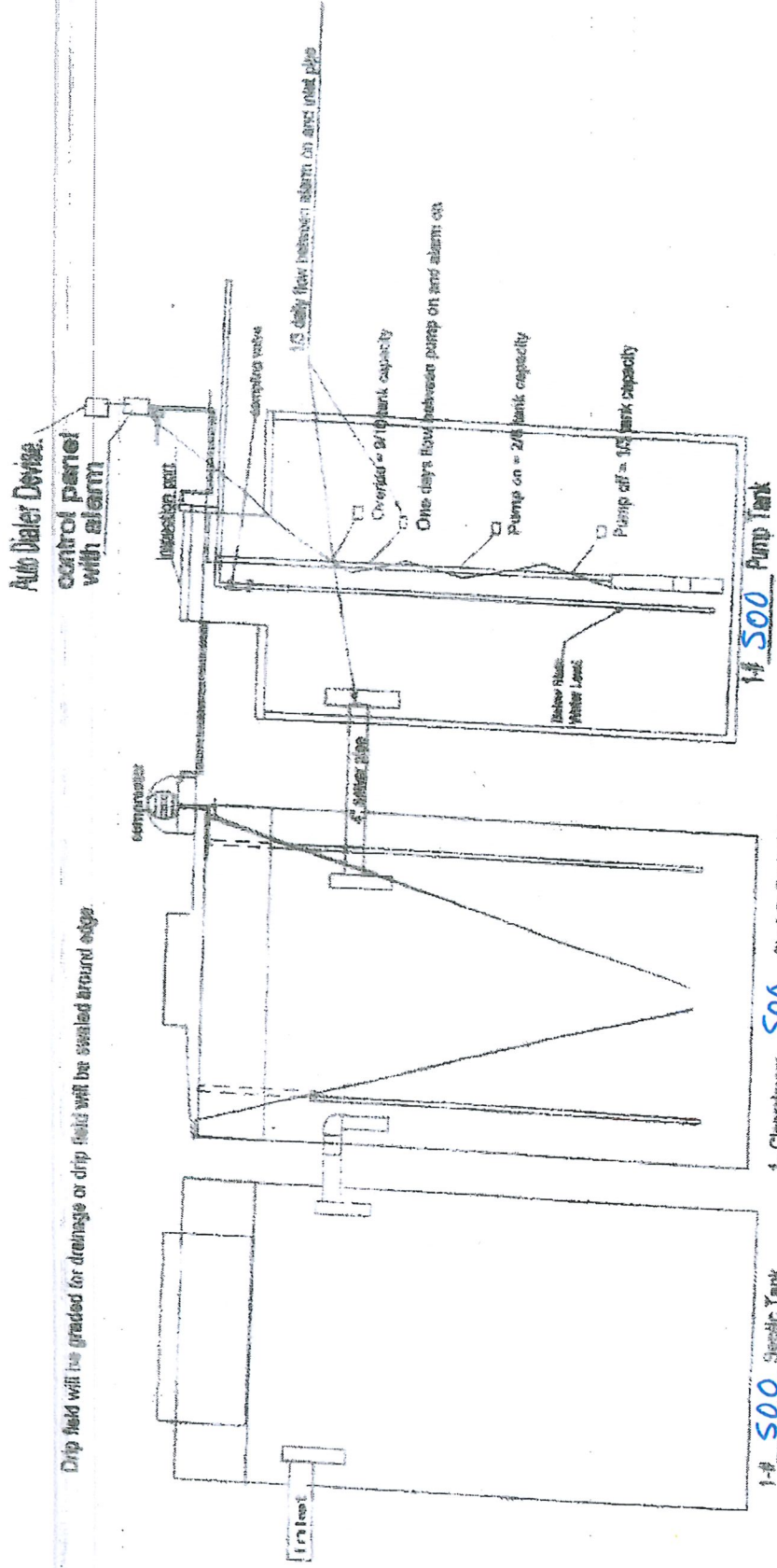
DIAGRAM 1: TYPICAL DRIPFIELD LAYOUT





# NOT TO SCALE

Drip field will be graded for drainage or drip fields will be swaled around edge.



1-# 500 Septic Tank

1- Clariflocc 500 Plant Or Equivalent

14 500 Pump Tank





OWNERS INFO:

PROJECT SITE ADDRESS: 850 VELLER DR., HOUSTON, TX 77032
LOCAL ADDRESS: 17286 BELT TO CANTWOOD SEC 2
HOLD # 109-268100-02861, GEN MAP# 9739\*

GENERAL NOTES

- 1) REFER TO INDEX SHEET (INDX) FOR VICINITY MAP & SUMMARY OF SHEET INCLUDED WITH THESE DOCUMENTS.
2) THIS DOCUMENT IS NOT A SURVEY
3) CALL 911 FOR FIRE/AMBULANCE
4) CALL 911 THE NATIONAL TOLL BEFORE YOU DIG NUMBERS; IT'S THE LAW
5) 1 (OMIT)
6) 1 (OMIT)
7) 1 (OMIT)
8) APPROXIMATE SIZE & LOCATION OF BUILDINGS,
9) PROPERTY BOUNDARY LINES SHOWN ARE FOR SKETCH PURPOSES AND ARE BASED ON INSTRUMENTS, SURVEY, PLATS AND/OR SIMILAR DOCUMENT PROVIDED BY OWNER OR RECORD/CLIENT, AND ARE ONLY TO BE USED TO ORIENTATION.
10) REFER TO SURVEY, PLAT, OR SIMILAR DOCUMENT FOR ADDITIONAL INFORMATION.
11) OWNER/BUILDER/ENGINEER/CONTRACTOR:
12) VERIFY ALL DIMENSIONS, BUILDING LINES, EASEMENTS, BUILDING LINE RESTRICTIONS (FENCED RESTRICTIONS, ETC.), AND ZONING ORDINANCES, IF OF CONSTRUCTION, (FEED SUBJECT PROJECT), BEFORE COMMENCEMENT OF CONSTRUCTION.
13) REFER TO ACTUAL SITE, GINS, AND/OR OTHER CITY OF HOUSTON APPROVED SPECIFICATIONS AND/OR AS-BUILTS FOR ANY DATA RELATED TO UTILITIES AND/OR RELATIVE ANVALL CORRESPONDING ADJUSTMENTS TO INFORMATION ALL UNDERGROUND/ABOVE GROUND UTILITIES, RESTRICTIONS AND/OR SIMILAR, BEFORE START OF ANY CONSTRUCTION.
14) OWNER/BUILDER TO VERIFY ANVALL LOCAL AND/OR ADJACENT BUILDING LINES, DEED RESTRICTIONS,
15) THIS PLAN WAS PERFORMED WITHOUT THE BENEFIT OF TITLE REPORT; CERTAIN EASEMENTS AND/OR BUILDING LINES MAY HAVE BEEN GRANTED WHICH ARE NOT REFLECTED HEREON. THIS PLAN IS SUBJECT TO ANY EASEMENTS AND/OR BUILDING LINES THAT MAY BE DISCLOSED BY A COMPLETE AND ACCURATE TITLE SURVEY BEFORE THE START OF ANY CONSTRUCTION.
16) THIS DOCUMENT DOES NOT PROVIDE ANY DETERMINATION WITH REGARD TO WEAPONS, TOXIC OR CONTAMINATED WASTEWATER, FAULT LINES, OR ANY ADDITIONAL ENVIRONMENTAL CONCERN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

DESIGN BASIS/DROP

DESIGN BASIS FOR THE TEXAS ADMINISTRATIVE CODE (TAC) 205, EFFECTIVE 6/1/2011

PURPOSE: FUTURE 2 BEDROOM RESIDENCE = 160 GPD
PUMP - USE WATERS MET 1/2 HP PUMP OR EQUIVALENT. HIGH WATER ALARM IS REQUIRED AND MUST BE INSTALLED ON A SEPARATE CIRCUIT FROM THE PUMP, DC OR BATTERY POWERED ALARMS SHALL NOT BE USED.
WATER TANK - WATER TANK SHALL BE INSTALLED AS NEARLY AS PRACTICABLE TO THE PUMP AND SHALL BE VISIBLE AND AUDIBLE SIGNAL, WHENEVER THE WATER LEVEL EXCEEDS THE "PUMP ON" LEVEL BY 2 INCHES IN THE PUMP TANK.
FLUSH VALVE - FLUSH VALVE IS ABOVE THE PUMP INLET. APPROVED 300-PSI PRESSURE RATED FLUSH VALVE MUST BE USED. A FLUSH VALVE MUST BE INSTALLED TO FLUSH BARRIER LINES BACK TO THE PUMP TANK.
A VACUUM BREAKER MUST BE INSTALLED IN EACH DRAIN FIELD. MAKE ALL ELECTRICAL CONNECTIONS OUTSIDE THE PUMP TANK. DEVICES, N.E.L.A., APPROVED OUTDOOR ELECTRICAL DEVICES.
IF DISCREPANCIES EXIST BETWEEN THE DESIGN AND ACTUAL SITE CONDITIONS, THE INSTALLER SHALL NOTIFY THE DESIGNER AND HARRIS COUNTY PRIOR TO THE START OF ANY WORK. PURSUANT TO COUNTY AND STATE RULES AND POLICES, LINES SPECIFICALLY NOTED ON THIS DESIGN AND APPROVED BY HARRIS COUNTY.
THE SITE SHALL BE FINISH GRADED AND SLOTTED OR SEEDED WITH BERMUDA OR COMPATIBLE INSTALLATION, PROVIDING POSITIVE SURFACE DRAINAGE.

SITE WASTEWATER SYSTEM GENERAL NOTES

AN ON-SITE SEWAGE FACILITY LICENSE MUST BE OBTAINED FROM HARRIS COUNTY PRIOR TO INSTALLING THIS WASTEWATER DISPOSAL SYSTEM.
SYSTEM INSTALLATION MUST BE BY A REGISTERED INSTALLER OF ON-SITE SEWAGE FACILITIES AS REQUIRED BY ARTICLE 144.77(c) OF THE HEALTH AND SAFETY CODE. THE LICENSEE SHALL BE COVERED UP WITHOUT HARRIS COUNTY'S WRITTEN APPROVAL. IF ANY DISCREPANCIES EXIST BETWEEN THE APPROVED DESIGN AND THE ACTUAL FIELD CONDITIONS, IT IS THE INSTALLER'S RESPONSIBILITY TO NOTIFY THE DESIGNER AND HARRIS COUNTY PRIOR TO START OF ANY WORK AND SUBMIT AND RECEIVE APPROVAL OF ANY NECESSARY CHANGES IN THE PROPOSED CONSTRUCTION.
ALL CONSTRUCTION METHODS AND MATERIALS MUST BE IN ACCORDANCE WITH COUNTY AND STATE RULES AND APPROVED BY HARRIS COUNTY.
CONTRACTOR SHALL NOTIFY ON THIS DRAWING AND APPROVED BY SITE SHALL BE CAREFULLY FINISH GRADED AFTER COMPLETION OF SYSTEM INSTALLATION TO PROVIDE POSITIVE STORM WATER RUNOFF. ABSORPTION AREA SHALL BE CROWNED, DRAINAGE SWALES SHALL BE CROWNED TO DRAINAGE SWALES.
ALL INSPECTIONS MUST BE ASSES AND AN AUTHORIZATION TO OPERATE MUST BE ISSUED BY HARRIS COUNTY BEFORE THIS ON-SITE SEWAGE FACILITY CAN BE USED.
THIS SYSTEM IS INSTALLED AND OPERATED IN ACCORDANCE WITH THE HEALTH AND SAFETY CODE AND THE REGULATIONS OF THE HEALTH DEPARTMENT PROPOSED OR ADJACENT WATER WELLS OR OVERSICUPANT, UPON ANY SALE OR TRANSFER OF THIS SUBJECT PROPERTY, MUST REQUEST A TRANSFER OF THE LICENSE TO OPERATE SUCH SYSTEM TO THE BURER OR TRANSFEREE. FUTURE BUDER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONTRACT WITH HARRIS COUNTY APPROVED MAINTENANCE COMPANY WILL BE REQUIRED FOR THE USE OF ANY SYSTEM USING PROPRIETARY, SECONDARY, OR NON-STANDARD TREATMENT OF WASTEWATER.
FOR MORE INFORMATION CONCERNING THIS SPECIFIC ON-SITE SEWAGE FACILITY, CONTACT THE HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, ARCHITECTURE & ENGINEERING DIVISION, PERMIT GROUP, 10955 NORTHWEST FREEWAY, SUITE 120, HOUSTON, TEXAS 77092, (713) 956-3000.
SYSTEM TO BE INSTALLED PER LOCAL BUILDING CODES REQUIREMENTS, HARRIS COUNTY REGULATION AND MANUFACTURE SPECIFICATIONS.
INSTALLER TO HARRIS COUNTY PERMIT AND SYSTEM REQUIREMENTS FOR MAINTENANCE AND SCHEDULED HIGHLY RECOMMENDED TO PLACE A SECURITY FENCE AROUND TANK AND NOT TO PLACE ANY ITEMS OVER THE DRIP FIELD.

SEPTIC CALCULATIONS

1- FUTURE 2 BEDROOM RESIDENCE = 160 GPD
160 GPD / 0.25 = 720 SF OR 360 LF REQUIRED.

SEPTIC LEGEND

- A) 1-500W SEPTIC TANK
B) 1-500W SEPTIC TANK WITH 1/2 HP PUMP
C) 1-500W PUMP TANK WITH 1/2 HP PUMP
D) 1-PAN-60 HP PRESSURE TEG
E) 1-APPE 100 VORTEX FILTER
F) 1-SUPPLY LINE
G) 1-RETURN LINE

FLOOD PLAIN NOTE

THIS TRACT OR LOT IS IN THE 10 YEAR FLOOD PLAIN AND IS IN ZONE XE-1 AS LOCATED BY FEDERAL INSURANCE ADMINISTRATION (FEMA) FLOOD MAP NO. 4802100D PANEL NO. 4600L DATED 10/16/2013.
THIS INFORMATION IS BASED ON GRAPHICAL PLOTTINGS/SCALING ONLY. WE DO NOT ASSUME RESPONSIBILITY FOR EXACT DETERMINATION.

REFER TO L&S HARRIS COUNTY DESIGN & ENGINEERING, LLC INDEX SHEET # 1 AND 2 FOR L&S OF THIS PROJECT. THIS PROJECT IS AN IMPORTANT INTEGRAL PART OF THIS PROJECT.

THIS DOCUMENT IS AN INTEGRAL PART OF A SET OF WORKING DOCUMENTS FOR THIS PROJECT. NO DOCUMENTS OR SEGMENTS OF MAY BE REPRODUCED/DUPPLICATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF L&S HARRIS COUNTY DESIGN & ENGINEERING, LLC (L&S). LEGAL REPRODUCTION, REVISIONS, OR ALTERING OF THESE DOCUMENTS FOR SALE IS STRICTLY PROHIBITED, AND VIOLATIONS WILL INCURE REPROVISIONS TO THE EXTENT OF THE LAW, EXPENSES OR SIMILAR DAMAGES INCURRED BY THE DESIGNER. L&S ASSOCIATES WILL BE REIMBURSED 100% PLUS ANY ADDITIONAL FEES BY THE PARTY IN DEFAULT. THE ENGINEERING IS SEPARATED AND SIGNATURED, IF ON THIS DRAWING, MUST ALWAYS BE ORIGINAL, NO COLOR OR BLACK WHITE DUPLICATES ALLOWED TO BE TREATED AS ORIGINAL. DO NOT SCALE DRAWINGS. CLIENT/COUNTERPARTY REPRESENTATIVE TO CONTACT THE DESIGNER FOR ANY CHANGES BEFORE THE START OF ANY CONSTRUCTION. DO NOT START CONSTRUCTION UNTIL DOCUMENTS ARE RELEASED BY H&S FOR CONSTRUCTION ISSUE.

\*\*\* FOR PERMIT OFFICE USE \*\*\*

ISSUE DATES: PRELIM: 11.10.17
PERMIT:
CONST:
REV:
INITIALS: DESIGNER: CT
CHECKER: JDL

Cruz Development
PROJECT SITE: 850 VELLER DR., HOUSTON, TX 77032
Las Haciendas
DESIGN & ENGINEERING, LLC
JOSE DANIEL LIRA, FE#91220, FE#11501, 281.781.3643



SHEET TITLE: SEPTIC NOTES & CALCULATIONS
SHEET NO. C1.2
SCALE: 1/4" = 1'-0"

\*\*\* FOR PERMIT OFFICE USE \*\*\*